



Petronet LNG Limited

Survey No. 347, Puthuvypu P.O.
Kochi - 682 508, India.
Tel: 0484 - 2502259 Fax: 0484 2502264
www.petronetlng.com
CIN L74899DL1998PLC093073

PLL/KOCHI/MOEF/2018-19/03

28th May, 2018

Additional Principal Chief Conservator of Forests (C)

Ministry of Environment, Forest and Climate Change,
Regional Office (SZ),
Kendriya Sadan, 4th Floor, E&F Wings, 17th Main Road,
Koramangala II Block,
Bangalore – 560034.

Sub: Compliance report to Environment Clearance accorded to the LNG Terminal at Puthuvypu, Kochi.


Ref: Environment Clearance No. J-16011/26/2001-IA-III vide your letters dated 31st January 2013.

Sir,

The Six monthly compliance report for the above clearances are attached for the period ending 31st March 2018.

Thanking You,

With Regards


(T. N. Neelakantan)
Sr. Vice President (Plant Head)



CC:

- 1) The Chief Environmental Engineer,
Kerala State Pollution Control Board,
Gandhinagar, Kochi – 682 020.

Regd. Office:

World Trade Centre, First Floor, Babar Road,
Barakhamba Lane, New Delhi- 110 001 (INDIA)
Tel: 011-23472525/23411411 Fax: 011-23472550



Dahej LNG Terminal:

GIDC Industrial Estate, Plot No. 7/A, Dahej
Taluka: Vagra, Dist. Bharuch - 392130 (Gujarat)
Tel.: 02641-257004/05/07, 253182, Fax: 02641-253180

COMPLIANCE REPORT of CRZ Clearance no. J-16011/26/2001-IA-III vide your letters dated 31st JANUARY 2013 for enhancing the re-gasification capacity from 2.5 to 5 MMTPA at Puthuvypeen Island, Kochi, Kerala by M/s Petronet LNG Ltd.

Point-wise compliance to stipulated terms and conditions of the above CRZ Clearance is as follows:

	SPECIFIC CONDITIONS	PLL Remark
I	"Consent for Establishment" shall be obtained from State Pollution Control Board under Air and Water Act and a copy shall be submitted to the Ministry before start of any construction work at the site.	"Consent to Establish" Consent No. PCB/HO/EKM/ICE-R/03/2013 obtained from KSPCB and a copy of the same has already been submitted to the Ministry along with the six monthly compliance report dated 30 th September-2013.
II	NOC/Clearance shall be obtained confirming that all the firefighting provisions are as per standards specified by the Chief Controller of Explosives/Petroleum & Explosives Safety Organization (PESO) for the additional storage tanks.	No additional LNG storage tank is envisaged for this enhancement. We have got Approval of PESO for the existing LNG Storage Tanks and a copy of the same has already been submitted to the Ministry along with the six monthly compliance reports dated 05 th April-2013.
III	Leak detection/warning system shall be provided at strategic locations. Necessary control measures capable of remote operation to shut down the leakage, if any, should be provided.	Complied. State of the art automated FGS & shutdown system is installed to mitigate any such incidents.
IV	Appropriate safety devices such as masks should be provided for use by the workers handling the products at the site and their usage by them should be ensured.	Complied. Safety Helmets, Safety Shoes, Safety Goggles, SCBAs, Cryogenic suits are provided to all relevant workers and Dust mask are provided to the workers involved in activities which has potential to generate dust.
V	Project proponent should implement all the recommendations stipulated in the EIA, EMP and Risk Assessment reports pertaining to the project.	PLL is complying with all the recommendation stipulated in the EIA, EMP and Risk Assessment reports pertaining to our project.
VI	The commitments made during the Public Hearing and as recorded in the Minutes shall be complied with letter and spirit.	Noted. Public Hearing commitments are incorporated in Final EIA Report for further necessary implementation. Public hearing commitments are fulfilled details has already been submitted along with the six monthly compliance report dated 02 nd June-2016.
VII	All the conditions stipulated in the earlier Clearance including the recommendations of Environment Management Plan, Disaster Management Plan shall be strictly complied with.	Complied. All the conditions stipulated in the earlier clearance including the recommendations of EMP and DMP are strictly complied with.

VIII	<p>The Committee noted the proponent's statement that augmentation of the capacity from 2.5 MMTPA to 5.0 MMTPA will not induct additional environmental issues and that the planned system will take care of the overall requirements of the facility. However, impacts if any arising out of increased activities to meet the additional capacity shall be brought to the notice of the Ministry with appropriate mitigation measures that will be put in place, to ensure that the given commitment of 'no additional impact' is maintained in letter and spirit.</p>	<p>Noted. However, Augmentation of the capacity from 2.5 MMPTA to 5.0 MMTPA will not induct additional environmental issues.</p>
IX	<p>At least 5% of the total cost of the project shall be earmarked towards the Corporate Social Responsibility (CSR) and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry prior to the commencement of the project. Implementation of such program shall be ensured accordingly in a time bound manner.</p>	<p>5% of the total cost of augmentation of the capacity from 2.5 MMTPA to 5.0 MMTPA project is earmarked towards community development and other infrastructure related as well as CSR projects. PLL is carrying out community development and welfare measures for villagers of nearby village; Rs 78.24 Lakhs was spent on CSR activity for the Financial Year 2017-2018. Details regarding the CSR activity is enclosed as Annexure#1.</p>
X	<p>It shall be ensure that the proposed activity shall not cause any disturbance to the Fishing activity.</p>	<p>The proposed augmentation/ enhancement of plan capacity do not involve any modification in current marine facilities. Hence will not cause disturbance to fishing activity.</p>
Xi	<p>The smooth and safe operation of the system will be ensured by incorporating a computerized SCADA (Supervisor Control And Data Acquisition) system. Any leakage in the pipeline shall be immediately detected by the Computer system and product pumping shall be immediately cut off.</p>	<p>Complied. Computerized SCADA (Supervisor Control And Data Acquisition) system, FGS (Flame, Gas and Spill) detection system and ESD (Emergency Shutdown system) system has already been installed to ensure smooth and safe operation, for early detection of any leak and for safe shutdown in case of any emergency respectively. Regasified NG pipeline belong to GAIL and cut off of the gas supply is ensured by them and on intimation to PLL, we may stop the supply.</p>

Xii	Regular patrolling of the pipelines needs to be done. This will help in identifying any activity that have the potential to cause pipeline damage or to identify small leaks whose effects are too small to be detected by instrument.	Complied. Regasified NG pipeline belong to GAIL and PLL has no any role related to these pipelines. However, the pipelines within the terminals are equipped with temperature and pressure sensors designed to raise alarm in case of abnormalities, in additions to this all pipelines are continuously guarded with relevant detectors capable of activating ESD if situation demands.
Xiii	The project shall be carried out as per international standards in vogue and duly certified by competent authorities before commissioning.	Complied. The project was carried out in accordance with relevant international and national standards. All equipments have been inspected and certified by competent third party or by competent authorities as per requirements.
Xiv	Oil Spill Contingency Management Plan shall be put in place along with the dedicated staff to deal with Oil spill in and around the port area shall be provided in the port. No oily wastes shall be discharged into the water bodies/mangrove areas.	<p>Contingency plan is formulated to take care of the eventualities; a copy of the same has already been submitted with six monthly compliance reports dated 05th April-2013.</p> <p>PLL is having one FIFI 1 tug with required boom barrier and other oil spill control related equipments. PLL jetty falls under the Cochin Port Trust (CPT), and the Oil Spill Contingency Management Plan is prepared by CPT. PLL has provided the information required from the terminal to be incorporated in the Oil Spill Contingency Management Plan. Coast guard is also part of the Oil spill contingency plan.</p> <p>No oil waste will be discharged in to water bodies/mangrove areas. Oily waste will be collected and send to Hazardous waste handling agency.</p> <p>We have entered in to agreement with KEIL (Kerala Enviro Infrastructure Ltd) for handling and treatment of our Hazardous waste and the latest agreement copy is attached along with this report as Annexure#2.</p>

Xv	Regular mock drills shall be conducted to check the effectiveness of the on-site Disaster Management Plan. The recommendations made in the Environmental Management Plan and Disaster Management Plan, as contained in the Environment Impact Assessment and Risk Analysis reports of the project, should be effectively implemented.	Regular mock drills are conducted for both On-site as well as Off-site emergency scenarios. All mock drills are conducted as per ERDMP plan. For Off-site emergencies, an effective Mutual aid arrangement is in place; all parties in the Mutual aid actively participate in Off-site Mock drills. PLL has a Mutual Aid agreement with FACT-UD and BPCL-STF to provide resources during emergency. All recommendations made in the Environmental Management Plan and Disaster Management Plan, as contained in the Environment Impact Assessment and Risk Analysis reports of the project are covered while preparation of ERDMP (Emergency Response and Disaster Management Plan) which is effectively implemented.
xvi	No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.	Noted. No any other construction work will be done in CRZ area.
Xvii	The project proponent shall set up separate environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.	PLL has set up Environment Management Cell under Sr. Vice President – (Plant Head), other members of the team includes GM (Operations & Maintenance), Head of Operation department, C&P (Contracts & Procurement) department, Technical department, HSE department, Civil Department, Lab operation & a representative from HR department for effective implementing the stipulated environment safeguards. The SOP of the Environment Management Cell was revised on 23/04/2018 and the copy of the same is attached as Annexure#3 .
xviii	The funds earmarked for environment management plan shall be included in the budget and this shall not be diverted for any other purposes.	The funds earmarked for environment management plan is included in the budget and will not be diverted for other purposes. The details of the last financial year budgeted fund for environment management plan is enclosed as Annexure#4 .

6.	GENERAL CONDITIONS	PLL Remark
I	Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality.	Noted. PLL have taken appropriate measure while undertaking digging activities. We conduct ground water analysis periodically and latest report is enclosed as Annexure#5 .
ii	Full support shall be extended to the officers of this Ministry/Regional Office at Bengaluru by the project proponent during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in respect of mitigation measures and other environmental protection activities.	PLL will extend full support to the officers of this ministry's Regional Office, Bangalore and the officers of the Central and State Pollution Control Board during the inspection for monitoring purpose by furnishing full details of analysis reports and action plans for environmental protection
iii	A six-Monthly monitoring report shall need to be submitted by the project proponents to the Regional Office of this Ministry at Bengaluru regarding the implementation of the stipulated conditions.	Noted. Six monthly reports regarding the implementation of the stipulated conditions are regularly been submitted to regional MoEF office for all CRZ Clearance obtained for Kochi LNG Terminal project.
iv	Ministry of Environment & Forests or any other competent authority may stipulate any additional conditions or modify the existing ones, if necessary in the interest of environment and the same shall be complied with.	PLL will comply with additional conditions, if any suggested by the ministry or any other competent authority in writing.
V	The Ministry reserves the right to revoke this clearance if any of the conditions stipulated are not complied with the satisfaction of the Ministry.	PLL is aware of the Ministry's right to revoke clearance for not complying with the conditions stipulated in the clearance.
Vi	In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to the Ministry of Environment and Forests.	Noted.
Vi i	The project proponents shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.	Site appraisal clearance obtained on 28 th Feb 2011. No separate land developmental work was required, as this involved only augmentation of equipment in the same land.
Vi ii	A copy of the clearance letter shall be marked to concerned Panchayat/local NGO, if any, from whom any suggestion/ representation has been made received while processing the proposal.	PLL has written letter to concerned Gram Panchayat vide letter no. PLL/Kochi/MoEF/GP/2013/001 dated 07 th March-2013; A copy of the letter has already been submitted with six monthly compliance reports dated 05 th April-2013.

ix	State Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industries Centre and Collector's Office/Tahsildar's office for 30 days.	Action need to be taken by State Pollution control board.
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Other Conditions mentioned in the Environment Clearance dated 31st January 2013.

7	These stipulation's would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification 1994, including the amendments and rules made thereafter.	Noted.
8	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.	Noted. Copies of all relevant approvals/NOCs have already been submitted along with the six monthly compliance reports dated 05 th April-2013.
9	The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental and CRZ Clearance and copies of clearance letters are available with the Kerala Pollution Control Board and may also be seen on the website of the Ministry of Environment and Forests at http://www.envfor.nic.in . The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional office of this Ministry at Bengaluru.	PLL had advertised regarding environmental clearance accorded by the Ministry of Environment & Forest in two local newspapers widely circulated in the region around the project. Copy of the advertisement given in the two local newspapers has already been submitted along with the six monthly compliance report dated 30 th September-2013.
10	This clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.	Noted.
11	Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.	Status of the compliance, of various stipulated environmental conditions and environmental safeguards are uploaded in PLL's website.

12	Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted.
13	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, ZillaParisad/ Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	PLL has written letter to concerned Gram Panchayat vide letter no. PLL/Kochi/MoEF/GP/2013/001 dated 7 th March-2013, we have already submitted a copy of the letter with six monthly compliance report dated 5 th April 2013.
14	The proponent shall upload the status of compliance of the stipulated Clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	This is uploaded in the website. www.petronetlng.com .
15	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	Noted.
16	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of Clearance conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	We have uploaded Form-V (Environment Statement) along with the status of compliance of clearance conditions in our company's website. Compliance of the clearance conditions is regularly sent to MoEF's regional office by e-mail. Kindly find the latest Form-V (Environment Statement) for the period of FY 2016-17 enclosed as Annexure#6 .

Thanking You,

With Regards

(T. N. Neelakantan)

Sr. Vice President (Plant Head)

CSR EXPENDITURE SHEET, KOCHI						
FY 17-18 (April to March)						
Petronet LNG Limited						
Sl. No.	Name of the Project	Vertical	Location	Approved & Committed (Rs)	Consumed (Rs)	Remarks
1	Supporting the Vypin Fire Station for ensuring Fire Safety to the Villages	Rural Development Projects	Vypin, Ernakulam	500,000.00	500,000.00	Completed
2	Promoting Kabaddi by Providing Kabbadi Mats to Ernakulam District Kabaddi Association	Sports, Art & Culture	Njaracckel, Ernakulam	300,000.00	300,000.00	Completed
3	Construction of School Toilets and Construction of Bore wells respectively	Health & Sanitation	Kothamangalam, Ernakulam	28,857.00	28,857.00	Completed
4	Ensuring Drinking water facility through the construction of Bore well and Installation of Water Filter at the Govt. at the Aided L P School, Puthur	Education	Puthur, Kannur	150,000.00	129,000.00	Completed
5	Construction of Causality Complex at Thrikakara Municipal Co-operative Hospital, Kakknad	Health & Sanitation	Thrikakara, Ernakulam	1,571,900.00	1,571,900.00	Completed
Total				2,550,757.00	2,529,757.00	
Petronet LNG Foundation (PLF)						
1	Providing School Bus at the E K Nayanar Smaraka, Govt. H S S School	Education	Vengad, Kannur	1,740,000.00	1,740,000.00	Completed
2	Supporting the FIFA World Cup through the Ground Facility and Water Tank	Promoting Sports	Fort Kochi, Ernakulam	1,946,544.00	1,946,544.00	Completed
3	Supporting the Scholarship Programme (Unarvu - Akshaya Educational Programme)	Education	Kalamessery, Ernakulam	500,000.00	500,000.00	Completed
4	Maintenance of the School Toilets Constructed under Swachh Bharath (Vidyalaya) Abhiyan	Health & Sanitation	Kothamangalam, Ernakulam	500,000.00	-	Approved, Under Implementation (To be Paid on receipt of Invoice /Bills) - Provisioning Kept
5	Skill Development Training Programme for 100 Youths of the Ernakulam District in convergence with Centre for Biopolymer Science & Technology (CBPST - A UNIT OF CIPET), Kochi	Education	Ernakulam	7,310,000.00	63,130.00	Approved, Under Implementation (To be Paid on receipt of Invoice /Bills) - Provisioning Kept (Rs 28.60 Lakh Payment to be Made, Bill at HO)
6	Construction of Smart Classroom at - 1. GMUP School, Poonoor, Kozhikode 2. Govt. L P School, Vayakode, Kasargode 3. Govt. L P School Perumpadanna, Parur, Ernakulam	Education	Kozhikode, Kasargode and Ernakulam	321,000.00	0.00	Approved, Under Implementation (To be Paid on receipt of Invoice /Bills) - Provisioning Kept
7	Organization of Medical Camp at Nyarambalam Bhagvati Vilasam High School	Health & Sanitation	Nayarambalam, Ernakulam	500,000.00	500,000.00	Completed
8	Approval to implement the project to feed the needy people of the Ernakulam District (Numma Oonu) in convergence with District Administration - A Pilot Project for two Months	Health & Sanitation	Ernakulam	360,000.00	235,469.00	Completed
9	Support to the art form of Koodiyattam, Ernakulam	Art, Culture and Heritage	Ernakulam	500,000.00	250,000.00	Completed (2nd Installment in December 2018)- - Provisioning Kept
10	Installation of Incinerator at the Taluka Hospital, Pemabra (Calicut)	Health & Sanitation	Perambra, Kozhikode	500,000.00	0.00	Approved, Under Implementation (To be Paid on receipt of Invoice /Bills) - Provisioning Kept
11	Providing Drinking Water Facility at Kendriya Vidyalaya, CPT	Education	Ernakulam	60,000.00	59,960.00	Completed
Total				14,237,544.00	5,295,103.00	
PLL + PLF				16,788,301.00	7,824,860.00	

CSR UPDATE

FY 2017-18

MAJOR HIGHLIGHTS

KOCHI



Petronet LNG Foundation

"An Organisation committed to Sustainable Social Growth"
(A wholly owned subsidiary of Petronet LNG Limited)

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Major Initiatives of FY 2017-18 - Highlights

PLF and Execution Meetings

Way Forward – Proposals for FY 18-19

Media and Accolades

Budget VS Spent

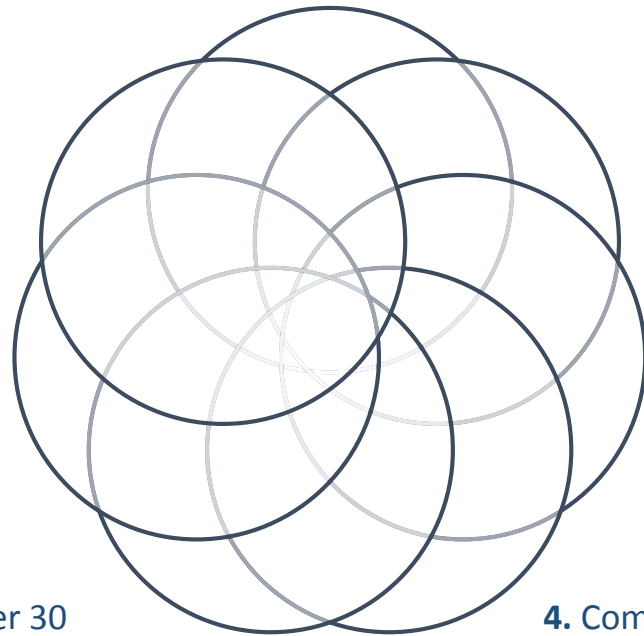
Major Highlights of FY 17-18

1. Construction of School Toilets across the 8 Locations by Wockhardt Foundation (Completion of the Job) – Under SBA (*Health and Sanitation*)

7. FIFA U 17 World Cup - Water Storage facility through construction of the Water Tank at Fort Kochi (*Sports*)

6. School Bus to the E K Nayanar Smaraka, Govt. H S S School, Vengad, Kannur (*Education*)

5. Kashmir Super 30 Students Success and felicitation at MoPNG, PMO, Chairman PESB, OIL India Chairi at Delhi (*Education*)



2. Ayurveda Dispensary at Edavandakad - Completion & Inauguration (*Health*)

3. Promotion of Kabaddi with Dist. Kabaddi Association, Ernakulam (*Sports*)

4. Completion of Survey in the 30 Villages of Ernakulam District for Petronet Eyes Project & Deehat Project by PWC (*Health*)



The Ayurveda Dispensary Constructed at Edavanakad – A Project of the District Health Dept, Block Panchayath and PLL



Around 100 Students get trained under the District Kabaddi Association at Njaracckel

Major Highlights of FY 17-18



Joint Inspection at the Interior Locations



Medicines under Subsidised rates for the Public



Inauguration of the Ayurveda Dispensary



Students during a practice match



Completion of the Pending Activities by Wockhardt Foundation and Field Visits



Inauguration of the Ayurveda Dispensary with a total cost of Rs 15 Lakh at Edavanakad



Handing over of the Kabaddi Mats (Equipment) to the Ernakulam Dist. Kabaddi Association in a Ceremony, Matches were also played during the Programme



Major Highlights of FY 17-18



Cleaning of the Toilets at the interior 7 Schools in the Ernakulam District (Kuttampuzha Block) by Wockhardt Foundation



Support to Nodal Officer FIFA by MD & CEO for Water Tank and Practice Ground



Completed Water Tank at Fort Kochi Parade Ground



Good Samaritan Interaction with a Beneficiary



Good Samaritan Awareness Sessions with Contract Workmen



Passes for Employees as a noble gesture provided by FIFA

Major Highlights of FY 17-18

Kashmir Super 30 Students Felicitation Glimpses....



Interaction of the Kashmir Super 30 Students with Dr Jitendra Singh, Maj Gen. Kalita and PLL Officials at PMO, North Block



Team PLL at Shastri Bhavan, MoPNG



Interaction of the Kashmir Super 30 Students with Dr Jitendra Singh, Maj Gen. Kalita and PLL Officials at PMO, North Block



Interaction of the Kashmir Super 30 Students at Shastri Bhavan, MoPNG

Major Highlights of FY 17-18

8. Construction of **Causality Complex** at Thrikakara Municipal Cooperative Hospital (Inaugurated by Hon'ble CM Kerala) (**Health**)



Casualty Complex at the TMHCL, Inaugurated



Casualty Complex at the TMHCL, Inaugurated

9. **AMC** of the Constructed Toilets carried out at 7 Schools with WASH Programme as per MHRD & MoPNG Notifications to PSUs (**Education**)



Handing over of School Bus at High School Kannur



Students and Teachers at the E K Nayanar High School Kannur

10. **Good Samaritan Project** Launched and Identification of Cases ongoing time to time (At Kochi 2 Cases Supported, 2 undergoing)



Handing over the Support for the Meritorious Students

11. Support to the 560 A+ Scoring talented meritorious students of project Unarvu - Akshaya - Initiative of the District Administration and at the Annual Meet 2017 at Kalmessery (**Education**)



Around 560 Students from vernacular medium and CSBE Schools were on the list

Major Highlights of FY 17-18



Wash And Toilet Cleaning At Kunjipara



Wash And Toilet Cleaning At Talawchpara



Wash And Toilet Clening At Anandamkudy



Wash And Toilet Cleaning At Kunjipara



Wash And Toilet Cleaning At Kunjipara



Good Samaritan Support Handed Over To Ms Shakeela



Support Handed Over Mr Vijayan



Ms Shakeela's Daughter - Thanks Card for the Support



Good Samaritan Support Handover Programme



Good Samaritan Support Handover Programme



Good Samaritan Support Handover Programme

Major Highlights of FY 17-18



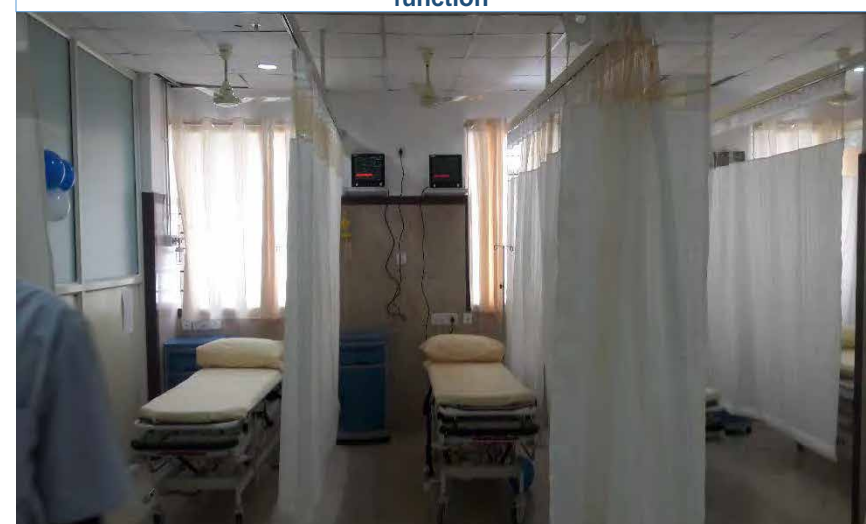
Shri T N Neelakantan addressing the assemblage on the inaugural function



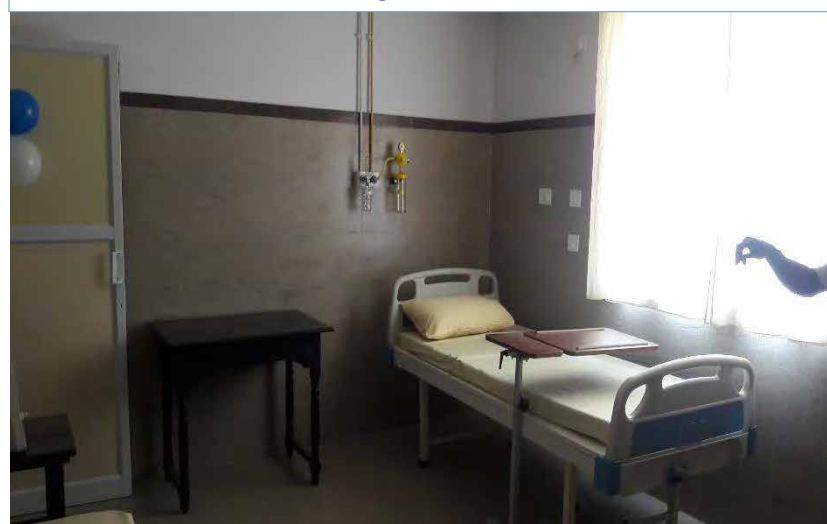
Shri Pinarayi Vijayan, Honble CM Kerala with Shri Manoj Pawa at the Inaugural function



Petronet LNG Supported with an amount of around Rs 30 Lakh



Casualty Complex to cater to a majority population of Migrant Labours



Equipped with Modern Treatment Facilities



Casualty Complex at the TMHCL - Facilities

Major Highlights of FY 17-18

“Ideation of National Agenda Initiative” (Education)

27 IITians from the top 5 IITs were engaged in the process of developing the blue ocean thinking.

8 Flagship programmes by Government of India were selected.

Subject Matter Experts from PLL participated with MD & CEO.

Field Visits, Representation in front of Govt. Officials and Secretaries to GOI of concerned Ministries by the Students on findings

Students visited existing/potential beneficiaries including ladies, children and *divyangs* in Villages

Existing beneficiaries/ potential beneficiaries, social and educational institutions, sanitation facilities – Individual Household Toilets, ITI, Poly Technique College, small entrepreneurs and 110 (approx.) inhabitants of the Villages

Interaction session with LSG Officials in order to understand their concerns in the presence of villagers at large in Atal Seva Kendra of village Manka, Alwar, Rajasthan was done.

Presentation in front of MOS (I/C) and Secretary MoPNG was by the students.

Felicitations and Certificates to the students as well as Interaction with Sh. Sanjay Kothari (Secretary, Honble President Of India)



IITians during Discussion Sessions with Govt. Officials



Interaction of the Students with Shri Sanjay Kothari, Secretary to the Hon'ble President of India, Shri Prabhat Singh and Other PLL Officials



Photo of the Participants (Students) & PLL Management at GTI, Noida



Dr Jitendra Singh (MOS) with the Students and PLL Management at PMO

Major Highlights of FY 17-18

Ideation Programme – Planning to Execution (Photo Gallery)



Planning Meeting of the Programme



Brainstorming sessions



IITans at the Gail Training Institute Noida



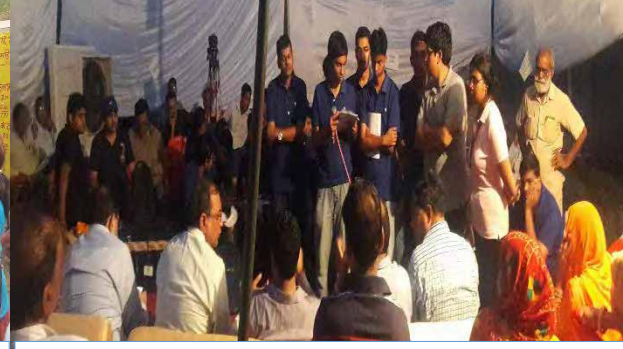
Field Visits by the IITans at Alwar, Rajasthan



A Visit to an ITI by the Students, who were divided into groups



Interaction session of the students with the village representatives



Presentations and Interaction by the students before the LSG Officials



Yoga Sessions were conducted for the Students



Presentations on the findings by the students



Presentations on the findings by the students – GOI representatives guided them

Major Highlights of FY 17-18

12. “Naipunyam” – Skill Training Project to 100 Students in Plastic Technology (2 Courses) With CBPST (Centre for Biopolymer Science and Technology) (*Education*)

13. Health Camp at Nayarambalam with Dist. Hospital & MLA with **940 Patients** (*Health*)

14. Eye Check Up Camp at Community Health Centre, Malipuram organised with **503 Patients, 421 Spectacles Distributed** (*Health*)

15. Numma Onnu- The Pilot Project on providing free food in the District of Ernakulam with Dist. Admin, KHRA is launched, with an objective of making a hunger free city and ensuring access of food to the needy.



MoA Inking between PLF and CBPST for Naipunyam



Director CBPST and Director PLF – Signing the MOA



Selection Interview for the Courses of Machine Operator – Injection Moulding and Machine Operator-Plastic processing



Batch of 50 Students – Selected for Machine Operator – Injection Moulding

Major Highlights of FY 17-18

MEDICAL CAMP AT NAYARAMBALAM PRIMARY SCHOOL



Pathological Facilities Provided In The Camp

EYE CAMP AT COMMUNITY HEALTH CENTRE MALIPURAM



Free Eye Check Up Camp with consultation. Medicines and spectacles conducted



A total of 503 Patients were enrolled in the registration process



940 Patients Attended With Different Ailments And Regular Check Up As Well



Jointly Organised By PLF, BPCL AND DIST HOSPITAL



Women members participated at large across several strata of the society from the nearby areas

Major Highlights of FY 17-18

Numma Onnu – Project Details



District Collector's Meetings - To roll out the Project on 26th January 2018 (KHRA, Railway, Collectorate and PLL Officials were present)



Committee Formation under the chairmanship of Dy. Collector, Collectorate, KHRA and Petronet LNG Officials



Meetings on the Pilot Project with KHRA at KHRA Office and Collectorate Officials with Petronet LNG



Designs of the Coupons, Mechanism Worked Out for the Project and locations for coupons distribution finalised



Launch of *Numma Onnu* on 26th January by Shri A K Moideen, Minister of Industries in presence of District Collector and officials of KHRA, PLL and Collectorate



A beneficiary on the first day getting a food coupon at the Collectorate

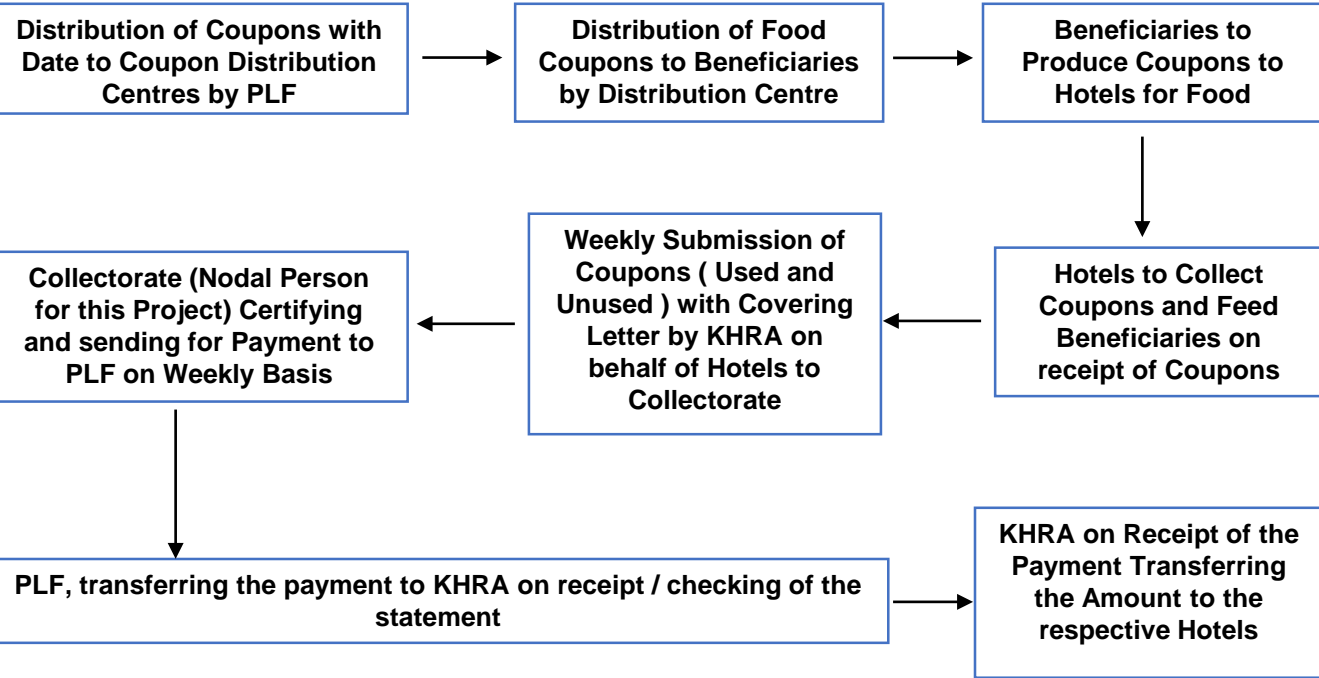


Several Beneficiaries at Hotels and Coupon Distribution centres

Major Highlights of FY 17-18

Numma Onnu – Process Flow Chart

NUMMA ONNU - CURRENT PROCESS FLOWCHART



The Seven Hotels at the Collectorate & South Railway Station Region currently providing the Numma Oonu Food (All photos).



Another location in addition is the Collectorate Canteen because of the closure of one of the 8 selected Hotels.

Major Highlights of FY 17-18

Numma Onnu – Highlights

WEEKLY STATEMENT REGARDING FOOD COUPONS
SUBMISSION DATE :19/02/2018

DATE	NUMBER OF COUPONS RECEIVED IN HOTELS							ALFALAH	MUGHAL	TOTAL COUPONS
	ALAKAPURI	CANTEEN	LIBA	GALAXY	ARYABHAVAN	ARYAS				
12.02.2018	4	10	1		6	3	6	10	40	
13.02.2018					6	1		3	10	
14.02.2018	4	8			8	6	4	7	37	
15.02.2018	6	10			8	3		5	32	
16.02.2018	3	8	2	3	6	4		2	28	
17.02.2018	8	7			7	6	2	6	36	
18.02.2018					13			5	18	
	25	43	3	3	54	23	12	38		
	GRAND TOTAL									201

For KERALA HOTEL & RESTAURANT ASSOCIATION

AUTHORISED SIGNATORY
KHERA



AUTHORISED SIGNATORY
COLLECTORATE ER



AUTHORISED SIGNATORY
PETRONET LNG

A Statement Sample Submitted by KHRA for the Reimbursement of Coupons



A Sample of the Food Coupon



നൂമ്മ ഊണ് വിശപ്പുരഹിത നഗരം

വിശന്നുപോയിരുന്ന ഒരാളും ജില്ലയിൽ ഉണ്ടാവരുത്. ഭക്ഷണം എല്ലാവർക്കും ലഭ്യമാകണം. ജില്ല ഭരണ കൂടത്തിന്റെ ഈ മഹത്തായ ചിന്തയിൽനിന്നാണ് വിശപ്പുരഹിത നഗരം പദ്ധതിക്ക് തുടക്കമാകുന്നത്. ജില്ല കലക്ടർ കെ. മുഹമ്മദ് റൈ. സഫീനുള്ള മുൻകൈയെടുത്ത് ആവിഷ്കരിച്ച നൂമ്മ ഊണ് വിശപ്പുരഹിത നഗര പദ്ധതിയിലൂടെയാണ് സൗജന്യമായി ഉച്ചയുണ്ട് നൽകാനുള്ള തീരുമാനമായത്. തെരഞ്ഞെടുത്ത ഹോട്ടലുകളിൽനിന്ന് ഉച്ചയുണ്ട് ലഭിക്കും. പദ്ധതിക്ക് പെട്രോനെറ്റ് എൽ.എൻ.ജി ഫൗണ്ടേഷനും കേരള ഹോട്ടൽ ആൻഡ് റെസ്റ്റോറന്റ് അസോസിയേഷൻ ജില്ല കമ്മിറ്റിയും വലിയ പിന്തുണയാണ് നൽകുന്നത്. കാക്കനാട് കലക്ടറേറ്റിലും എറണാകുളം സൗത്ത് റെയിൽവേ സ്റ്റേഷനിലും നൂമ്മ ഊണ് കൗണ്ടറുകൾ പ്രവർത്തിക്കും. ഇവിടെനിന്ന് ലഭിക്കുന്ന ക്യൂപ്പണുകൾ നൽകിയാൽ കാക്കനാട്ടെയും സൗത്തിലെയും തെരഞ്ഞെടുത്ത ഹോട്ടലുകളിൽനിന്ന് സൗജന്യമായി മികച്ച നിലവാരത്തിലുള്ള ഭക്ഷണം ലഭിക്കും. രണ്ട് സ്മലന്ദളിലുമായി നാലുവിതം ഹോട്ടലുകൾ ഇതിന് ഹോട്ടൽ ആൻഡ് റെസ്റ്റോറന്റ് അസോസിയേഷൻ കണ്ടെത്തിയിട്ടുണ്ട്. കാക്കനാട് കലക്ടറേറ്റ് സമീപം അളകാപുരി, ലീബ, അയോധ്യ, വാഴക്കാലയിൽ ഗാലക്സി എന്നീ ഹോട്ടലുകളിലാണ് ക്യൂപ്പൺ നൽകി ഭക്ഷണം കഴിക്കാനാകുക. സൗത്തിൽ ആര്യാസ്, അൽസഫ, ആര്യവേൻ, മുഗൾ എന്നീ ഹോട്ടലുകളിലാണ് സൗജന്യ ഭക്ഷണം.

Press Clippings

കൈയിൽ പണമില്ലെങ്കിൽ ഇനി വിശന്നിരിക്കേണ്ട

'നൂമ്മ ഊണ്' പദ്ധതിയുമായി ജില്ലാ ഭരണകൂടം

Press Clippings

പദ്ധതി കാക്കനാട്ടും സൗത്ത് റെയിൽവേ സ്റ്റേഷൻ പരിസരത്തും നിലവിൽ വരും

പദ്ധതി ഫെബ്രുവരി ഒന്നുമുതൽ

ഫെബ്രുവരി ഒന്നുമുതലാണ് പദ്ധതി പ്രാവർത്തികമാകുക. കാക്കനാട് കളക്ടറേറ്റിലും എറണാകുളം സൗത്ത് റെയിൽവേ സ്റ്റേഷനിലും 'നൂമ്മ ഊണ്'ന്റെ

കൗണ്ടറുകൾ പ്രവർത്തിക്കും. ഈ കൗണ്ടറുകളിൽ നിന്നു ലഭിക്കുന്ന ക്യൂപ്പണുകൾ നൽകിയാൽ കാക്കനാട്ടെയും സൗത്തിലെയും തെരഞ്ഞെടുത്ത ഹോട്ടലുകളിൽനിന്ന് സൗജന്യമായി മികച്ച നിലവാരത്തിലുള്ള ഭക്ഷണം ലഭിക്കും.

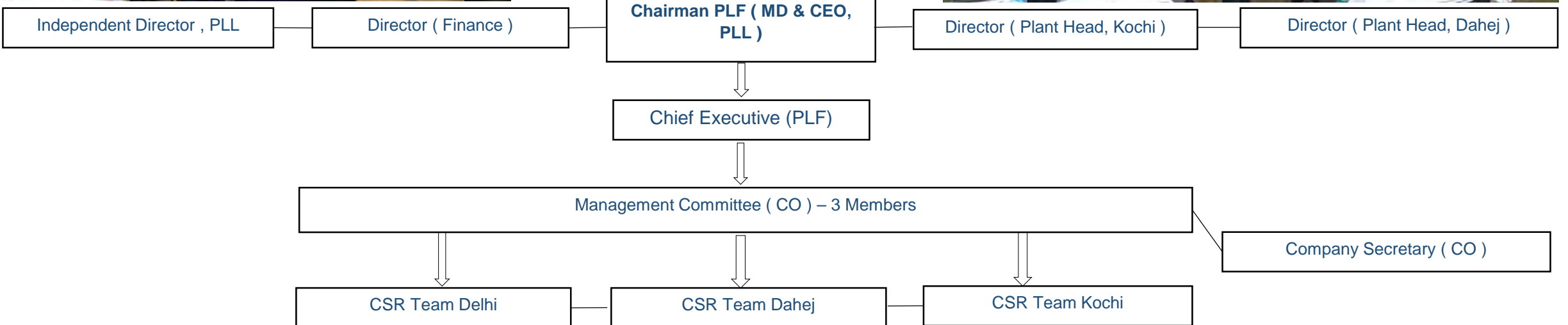
ത്ത് ആവിഷ്കരിച്ച പദ്ധതിക്ക് പെട്രോനെറ്റ് എൽ.എൻ.ജി. ഫൗണ്ടേഷനും കേരള ഹോട്ടൽ ആൻഡ് റെസ്റ്റോറന്റ് അസോസിയേഷൻ ജില്ലാ കമ്മിറ്റിയുമാണ് പിന്തുണ നൽകുന്നത്. കാക്കനാട്ടും സൗത്തിലും നാലുവിതം ഹോട്ടലുകളും ഇതിനായി ഹോട്ടൽ ആൻഡ് റെസ്റ്റോറന്റ് അസോസിയേഷൻ കണ്ടെത്തിയിട്ടുണ്ട്. കാക്കനാട് കളക്ടറേറ്റിനു സമീപം അളകാപുരി, ലീബ, അയോധ്യ, വാഴക്കാലയിൽ ഗാലക്സി എന്നീ ഹോട്ടലുകളിലാണ് ക്യൂപ്പണുകൾ നൽകി ഭക്ഷണം കഴിക്കാനാകുക. സൗത്തിൽ ആര്യാസ്, അൽസഫ, ആര്യവേൻ, മുഗൾ എന്നീ ഹോട്ടലുകളിലാണ് സൗജന്യ ഭക്ഷണം.



Hon'ble District Collector addressing the gathering on the launch of the Programme on 26th January at Collectorate

PLF and Execution Meetings

- ❑ Petronet LNG Foundation (PLF) [*An Organisation Committed to Sustainable Social Growth*] – A separate Company under Sec 8 of Companies Act Formed (CSR Arm of PLL)
- ❑ 1st 2nd and 3rd Board Meeting of PLF held on 21.04.2017, 15.06.2017 and 3.11.2017 at New Delhi



Media & Accolades

പ്രഥമ ശുശ്രൂഷാ ക്ലാസ്

വൈപ്പിൻ • ചെറായി സഹോദരൻ മെമ്മോറിയൽ എൽപി സ്കൂളിൽ പെട്രോനെറ്റ് എൽ എൻ ജിയുടെ നേതൃത്വത്തിൽ അത്യോഹിത പ്രഥമ ശുശ്രൂഷാ ക്ലാസ് നടത്തി. ശ്രീ. എ. പി. വർമ്മ കോടെ



Future Group Award for Best emerging CSR Brand



Rotary Club Recognition For Committed Services



Sr. VP (Plant Head) receiving the Recognition from UK Minister



Press Clippings - First Aid Awareness Programme

സൗജന്യ ഭക്ഷണം: 'നൂമ്മ ഓണ്' പദ്ധതിക്കു തുടക്കം

സൗജന്യ ഭക്ഷണ കലക്ഷന്റിലും സൗജന്യ റെയിൽവേ സ്റ്റേഷനിലും ലഭ്യം... വിദ്യാലയകേന്ദ്രം പദ്ധതി 'നൂമ്മ ഓണ്' പദ്ധതി ചുരുക്കം എസ്.ഐ.എ.സി. കോർപ്പറേഷൻ... വിദ്യാലയകേന്ദ്രം പദ്ധതി 'നൂമ്മ ഓണ്' പദ്ധതി ചുരുക്കം എസ്.ഐ.എ.സി. കോർപ്പറേഷൻ...

Press Clipping of the Numma Onnu Project - Hunger Free City



Press Clippings Of The Fire Training provided at the peripheral schools



Rotary Club Memento to PLL CSR



Future Group Trophy to PLL



Press Clipping for the Kabaddi Promotion



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KOODIYATTAM – A UNESCO RECOGNISED ART FORM OF KERALA , A PROJECT FOR THE REVIVAL OF THE ART FORM TO BE TAKEN UP INITIALLY AT A SMALLER SCALE UNDER CULTURE AND HERITAGE .

Renewal Agreement



കേരളം KERALA

AGREEMENT

BR 626362

AGREEMENT entered at Kochi on the 21st day of the month of March, 2013 between M/s KERALA ENVIRO INFRASTRUCTURE LIMITED having its registered office at FACT-CD Campus, Aambalamedu - 682 303, Kochi, Kerala, India, a company registered under the Companies Act, 1956 and currently represented by its CEO, Dr. N.K. Pillai hereinafter referred to as "KEIL", which expression shall where context so requires or admits of, be deemed to include its successors or assignees) of one part

and

M/S. Petronet LNG Limited a Public Limited company registered under the Companies Act 1956 having its factory at Survey No.: 347, Puthuvupu (P.O.), Kochi- 682 508 and currently represented by its Sr. V.P. (Plant Head), Shri T.N. Neelakantan, Age about 58 years, working at M/S. Petronet LNG Limited Survey No.: 347, Puthuvupu (P.O.), Kochi- 682 508 (hereinafter referred to as MEMBER which expression shall where the context so requires or admits of, be deemed to include its successors or assignee) of the other part, Is renewed for a further period of five years

AND WHEREAS, the foremost and the sole objective of KEIL is to prevent Environmental Pollution Hazards and to observe the existing laws on Environmental and Pollution Control.

AND WHEREAS the MEMBER desires to send its hazardous solid (hereinafter referred to as 'HAZARDOUS WASTE') to the KEIL as per the norms of Kerala State Pollution Control Board (hereinafter referred to as "KS-PCB") and the KEIL having requisite facilities in this behalf, agrees to receive the Hazardous Waste sent by the MEMBER on the terms and conditions stated hereunder, which have been mutually agreed to by and between KEIL and the MEMBER.

AND WHEREAS the parties hereto have decided to execute a DEED OF AGREEMENT.

NOW THIS AGREEMENT WITNESSES and it is hereby, mutually agreed by and between the parties hereto as follows:

1. DEFINITIONS AND INTERPRETATIONS:

1.1 'TIME' shall be stated in 'Hours' and shall mean Indian Standard Time

T. N. NEELAKANTAN
Sr. Vice President (Plant Head)
Petronet LNG Limited
Survey No. 347, Puthuvupu PO
Kochi-682 508, Dist. Ernakulam
Kerala (India)



Dr. N.K. PILLAI
Chief Executive Officer

Kerala Enviro Infrastructure Pre Ltd
Aambalamedu - 682 303

Page 1 of 7
K. M. PHILOMINA
ESPO VENDOR

No 9859
11.22.2018

LNG
Puthuvupu



കേരളം കേരल KERALA

BR 626361

- 1.2 'DAY' means a period of Twelve (12) consecutive hours beginning at 08.00 hours and ending at 20.00 hours.
- 1.3 'WEEK' means a period of seven (7) consecutive days beginning from a day.
- 1.4 'MONTH' means a period beginning at 0800 hours on the first day of calendar month and ending at 0800 hours on the first day of succeeding calendar month.
- 1.5 'YEAR' means a period of three hundred and sixty five (365) consecutive days or three hundred and sixty six (366) consecutive days when such period includes a twenty ninth (29th) day of February, beginning at 0800 hours from a day.
- 1.6 'FINANCIAL YEAR' means a period of three hundred and sixty five (365) consecutive days or three hundred and sixty six (366) consecutive days when such period includes a twenty ninth (29th) day of February, beginning at 0800 hours from first April.
- 1.7 The headings of or titles to the clauses in this AGREEMENT shall not be deemed to be part hereof or be taken into consideration in the interpretation or construction thereof or of the AGREEMENT.
- 1.8 Words imparting the singular only also include the plural and vice versa, where the context so requires.
- 1.9 The present agreement is entered in to by KEIL for collection, storage, treatment and disposal of Hazardous waste of its members.

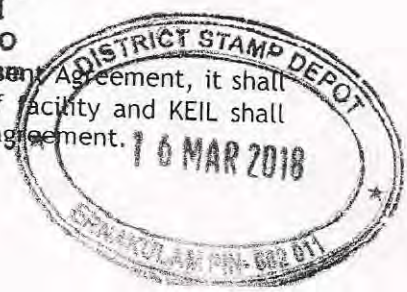
2. **PERIOD OF AGREEMENT :**
The renewed agreement will be valid for five years from 21st day of March 2018.

2.1 The present Agreement shall come into force from the date it is signed and prepared to send Transportation vehicles to the Member whichever is later and that the present Agreement shall remain in force for a period of 5 (five) years from any of the above named dates, whichever is applicable.

T. N. NEELAKANTAN
T. N. NEELAKANTAN
 Sr. Vice President (Plant Head)
 Petronet LNG Limited
 Survey No. 347, Puthuvypu PO
 Kanchi-682 208, District Breakers
 Kerala (India)

3. **EXTENSION PERIOD OF AGREEMENT**

3.1 If the Member wishes to send its Hazardous Waste under the existing Agreement, it shall give four (4) months advance notice to KEIL of its desire of extended period of facility and KEIL shall consider the request and, may, in its absolute discretion, offer terms for the fresh agreement.



Page No 7
K. M. PHILOMINA W98508 Petronet- LNG
 ESO VENDOR

Both the parties hereto, after reaching an agreement on the offered terms, shall execute a fresh agreement at least three (3) months before the date of expiry of this agreement.

3.2 Both the parties hereto agree that the present Agreement shall automatically come to an end in any of the following eventualities:

- I) On expiry of Authorization granted to the Member and the same having not been renewed or the same having been not granted by KS-PCB.
- II) On expiry of the present Agreement, where no fresh agreement is signed and executed between parties hereto as mentioned above.
- III) On Authorization to KEIL being cancelled, refused or not granted by KS-PCB.

3.3 Both the parties hereto further agree that in case of the present Agreement coming to an end owing to any of the aforesaid eventuality, it will be the sole responsibility of the Member to handle and treat its Hazardous Waste in accordance with the relevant provisions of law and that KEIL will not be responsible in any manner whatsoever in respect of the Hazardous Waste of the Members.

4. OBLIGATION OF THE MEMBERS:

4.1 While entering into the present Agreement with KEIL, MEMBER shall submit the categories of Hazardous Waste and its desire to dispose off the same and that the said categories of Hazardous Waste shall be as per those specified in the Schedule to Hazardous Waste (Management, Handling & Transboundary movement) Rules 2008 as amended from time to time. The Member shall also give true and correct information related to the description, amount, nature and toxicity of the said Hazardous Waste as and when called upon by KEIL or KS-PCB.

4.2 The MEMBER shall get the Authorization from KS-PCB permitting the Member to send its Hazardous Waste to KEIL for disposal and that it shall be the responsibility of the Member to get the same renewed from time to time, failing which KEIL reserves its right to repudiate the present Agreement.

4.3. For direct disposal of the toxic / hazardous wastes in the landfill, the Member shall ensure that the waste is free of toxic materials / heavy metals or Phenols, Cyanides and the waste should meet the accepted criteria for the land filling.

4.4. The waste which cannot be accepted for direct land filling will be subject to required treatment like neutralization, solidification, Stabilization or any other chemical treatment. Based on the requirement and depending on the waste characteristic, KEIL will decide the treatment. Member has to bear the treatment cost. The treated waste in such case can be disposed off in the landfill.

4.5. The waste should be kept in the containers specially designed for the transportation of hazardous waste.

4.6. The MEMBER shall make all the proper and adequate arrangements for keeping accurate records of production and shall keep accurate records of production of each of its products and Hazardous Waste generated thereof and send the compiled records to KEIL on the fifth (5) day of the succeeding MONTH, whereupon the KEIL shall send the same to KS-PCB.

4.7. MEMBER shall be required to maintain the record of Hazardous waste to be disposed off in KEIL site. The said records so maintained shall be open for inspection by KEIL or any officer of KS-PCB or any authority of State (Ministry of Environment and Forests) or any officer appointed by them.

4.8. The MEMBER shall make adequate and necessary arrangements as approved by and to the satisfaction of the KEIL, KS-PCB or other prescribed Authority under Law for collection and storage of its Hazardous Waste in its premises and shall give access to the Transportation Vehicles / Transportation Vehicles of KEIL to its storage facility during day time.

4.9. Before the Hazardous Waste is delivered at KEIL site, the Member shall ensure that the said Hazardous Waste is packed and transported in a manner suitable for transportation and that the Member should see that the said waste withstands physical and climatic conditions.

- 4.10. If and when an accident occurs during the handling / transportation of Hazardous Waste the Member availing facility shall immediately report to KEIL and KS-PCB about the accident.
- 4.11 The Member shall be bound to accept the rejected Hazardous Waste, if any, and if it fails to do so, his membership will be terminated.
- 4.12. During wet period of monsoon season, the Hazardous Waste may not be accepted. The Member shall create proper temporary storage facility which would include leachate facility or any other facility as provided or approved under the provisions of law.
- 4.13. The member shall create required temporary storage facility (minimum 4 months generation) considering the heavy monsoon in Kerala.
- 4.14. As far as possible the containers are to be filled in full. Proper arrangements have to be made for lifting the containers. It is to be ensured that once the Hook-loader reaches the factory, after collection of the wastes, it leaves the factory within one hour.
- 4.15. The MEMBER is obliged to intimate KEIL to send containers / hook loader and to despatch a minimum full load of Hazardous Waste within two hours.
- 4.16. The MEMBER is obliged to pay in advance transportation /treatment/disposal/analysis charges in cheque (local account) or demand draft.
- 4.17. KEIL may by a notice served on the Member require him to provide such additional information as may be specified in the notice and the member shall send the information to KEIL within 15 days from the receipt of the said notice.
- 4.18. The MEMBER declares that the MEMBER alone shall be liable for any action initiated against the MEMBER under Hazardous Wastes (Management, Handling & Transboundary Movement) Rules, 2008 or any other Pollution Laws or any other relevant provisions of Law for the time being in force, by KS-PCB or any other Authority.
- 4.19. The MEMBER shall comply with the provisions of Environment (Protection) Act, 1986 and the Rules made thereunder as also with the conditions of present agreement and that any breach committed thereunder shall render the Member not eligible for disposing of Hazardous Waste in KEIL.

5. QUANTITY & QUALITY

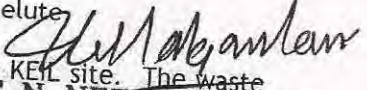
- 5.1 The Hazardous Waste to be sent by the MEMBER to KEIL shall be as per the categories specified in the schedule to Hazardous waste (Management, Handling and Transboundary Movement) Rules, 2008 or as per any new amendment or rules under the above Act.
- 5.2 The MEMBER shall not send for direct landfilling in any case any Hazardous Waste containing Hexavalent Chromium, heavy metals, phenols, cyanides or any other toxic materials in concentration as specified in the Clause 5.3 or that may be notified by KEIL from time to time. However, such wastes may be accepted for treatment and disposal with extra charges for treatment.
- 5.3 The following listed wastes will not be accepted by KEIL.
- Waste which is fluid, slurry, paste or acidic.
 - Waste which has an obnoxious odour.
 - Waste which reacts with moisture to produce considerable amount of heat or gases.
 - Waste which is inflammable. (Except for incineration)
 - Waste which contains shock sensitive substances.
 - Waste which contains volatile substances of significant toxicity.
 - Waste which contains more than 10 mg / kg chromate in the original sample.
 - Waste which contains more than 10 mg / Kg. of Water-soluble Arsenic in a 1/10 elute

5.4 All toxic wastes from pesticide industries shall be incinerated before sending to KEIL site. The waste shall not contain any acidity.


DR. N.K. PILLAI
 Chief Executive Officer
 Kerala Enviro Infrastructure Ltd.
 Ambalamedu - 682 303



PETRONET
LNG
LIMITED


T. N. NEELAKANTAN
 Sr. Vice President (Plant Head)
 Petronet LNG Limited
 Survey No. 347, Puthuvypu PO
 Kochi-682 508, Dist. Ernakulam
 Kerala (India)

5.5. KEIL may reject the Hazardous Waste in total, if the MEMBER's above mentioned Hazardous Waste is found not to be in accordance with the conditions mentioned in clause -5 of this AGREEMENT and the decision of KEIL in rejecting the Hazardous Waste of the member for non-compliance of the provisions of the present clause of this Agreement will be final and it will not be called in question and the MEMBER shall have to pay the extra amount which shall be charged by KEIL for expenditure incurred in analyzing, transporting and returning the rejected Hazardous Waste.

6. TRANSPORTATION

6.1 Transport of Hazardous Waste shall be in accordance with the provisions of Rules issued by the Central Government under Motor Vehicle Act, 1988 and other guidelines issued from time to time and/or subject to the provisions of law for the time being in force.

7. BILLING AND PAYMENT OF DISPOSAL CHARGES.

7.1. The sample of the Hazardous waste will be drawn from the supply and will be got analyzed by KEIL Laboratory or Laboratory approved by KEIL. The charges for analysis will be borne by the respective member.

7.2. The MEMBER shall pay to KEIL the charges for disposing of its Hazardous Waste as may be notified by KEIL by cheque or Demand Draft in advance.

7.3. KEIL shall charge the MEMBER on the basis of weighment to be done at disposal site. If the Weigh Bridge at disposal site is not working, it will be weighed at outside weigh Bridge approved by KEIL.

7.4. The MEMBER shall be bound by the analysis results / reports of KEIL for treatment and disposal charges and shall not call the same in question for any reason whatsoever.

8. DEFAULT

8.1 If the MEMBER fails and / or defaults in the discharge of any of his obligations under the present Agreement, KEIL shall have discretion to (i) refuse to accept the Hazardous Waste of the MEMBER for disposal without assigning any reason, (ii) notify to the KS-PCB the name of the Member informing about such default and that its Hazardous Waste would not be taken for disposal by KEIL on account of such default, (iii) inform the Member that its Hazardous Waste would be deemed to cause pollution and that the Member be liable as polluter under the Pollution Laws.

8.2 KEIL reserves its right to accept or refuse membership. In event of MEMBER committing any breach / violation of the conditions of the present Agreement or any provisions of Law / Act / Rules for the time being in force, KEIL reserves its right to suspend / cancel the membership for such period as it deems fit without giving any reasons or prior notice.

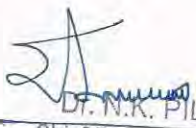
8.3 Where an offense under the Environment Protection Act has been committed by the Member or is attributable to any neglect on the part of the Member which shall include its Director, Manager, Secretary, Officer, Partner, etc. and if such Member is guilty of the offense or is liable to be prosecuted against and punished and no suit, prosecution or legal proceeding(s) shall lie against KEIL for the offense committed by its Member.


8.4 KEIL reserves its right to issue a show cause notice to the Member if it is of the opinion that the Member has contravened the provisions of law / conditions of the present Agreement, requiring the Member to remedy the contravention or as the cause may be, within a specific period of time. The said notice served shall specify the measures to be taken by the Member in remedying the said contravention.

8.5 KEIL shall inform the Kerala State Pollution Control Board / KSIDC of the suspension of any MEMBER.

8.6 The suspension / termination shall be revoked only at sole discretion of KEIL after it is satisfied that its conditions have been met.

9. TRANSFER OF RIGHTS


D. N. K. PILLAI
Chief Executive Officer
Kerala Enviro Infrastructure Ltd.
Ambalamedu - 682 303


T. N. NEELAKANTAN
Sr. Vice President (Plant Head)
Petronet LNG Limited
Survey No. 347, Puthuvypu PO
Kochi-682 508, Dist. Ernakulam
Kerala (India)

9.1 KEIL may at any time transfer or assign its rights and obligations under the AGREEMENT to any other company or business concern by giving notice in writing to the MEMBER. Upon such transfer or assignment, only the transferee or assignee shall be liable for the obligations herein contained.

10. **INDEMNITIES :**

10.1 The MEMBER shall be deemed to be in exclusive possession and control of the said Hazardous Waste and shall be fully liable and responsible for its arrangements, appurtenances and properties before the Transportation Vehicles / Transportation Vehicles of KEIL leave the premises of the MEMBER. Accordingly the MEMBER hereby covenants and agrees to fully protect, indemnify and hold KEIL, its employees, agents & successors and assignees harmless against any and all claims, demands, actions, suits, proceedings and judgments and any and all liabilities, costs, expenses, damages or losses arising out of or resulting from or incidental to or in connection therewith, which may be made out against KEIL, whether by the MEMBER its employees, agents or successors and assignees or by third parties on account of damages or injury to property or loss of life resulting from or arising out of the installation, presence, maintenance or operation or the intake arrangements, appurtenances and properties of the MEMBER.

10.2 It is also agreed by and between KEIL and the MEMBER that KEIL is not and shall not be liable in any manner whatsoever due to any negligence and for any reason or otherwise of the MEMBER, in disposing its Hazardous Waste at the factory site of the MEMBER or at any other place.

10.3 KEIL and Members will share any liability arising out of the existence and operation of the facility in proportion to the quantity of waste supplied by each member. Public liability Insurance will be taken for the facility.

11. **FORCE MAJEURE**

11.1 In case of any force majeure, KEIL shall not be saddled with any liability - contingent or otherwise but in that case, it shall be the sole liability of the MEMBER.

11.2 Both the parties hereto agree that due to change in any laws related to pollution or due to any directive of any Court or Authority, if KEIL is to incur any additional financial burden consequent upon any alteration and / or modification in the site or because of any other reason, then, in that case the MEMBER shall be liable to contribute for the same proportionate to its disposal of Hazardous Waste quantity in KEIL site.

11.3 Both the parties hereto agree that in any event of there being order in form of any injunction, stay or otherwise from any Court, KS-PCB or any other Authority stopping the functioning of the Site or otherwise whereby KEIL becomes unable to accept the Hazardous Waste of the MEMBER, KEIL shall not be responsible or made responsible and / or be liable in any manner in that regard and that in such an eventuality, it shall be the responsibility of the MEMBER to get the needful done in respect of disposal of its Hazardous Waste.

12. **PREVIOUS CORRESPONDENCE :**

12.1 All discussions and meetings held and correspondence exchanged between KEIL and the MEMBER in respect of the AGREEMENT and any decisions arrived at therein in the past and before the coming into force of the present AGREEMENT are herein superseded by the present AGREEMENT and no reference of such discussions or meetings or past correspondence shall be entertained by either KEIL or the MEMBER for interpreting the present AGREEMENT or otherwise.

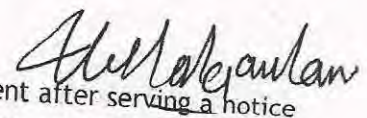
13. **LAWS GOVERNING THE AGREEMENT**


13.1 The present Agreement shall be subject to Indian Laws, rules and regulations and notifications etc. issued under such laws.

14. **AMENDMENTS :**

14.1 KEIL may at any point of time make suitable changes in the present Agreement after serving a notice to the MEMBER.

15. **TERMINATION OF AGREEMENT**




T. N. NEELAKANTAN
Sr. Vice President (Plant Head)
Petronet LNG Limited
Survey No. 347, Puthuvypu PO
Kochi-682 508, Dist. Ernakulam
Kerala (India)


P. PILLAI
Chief Executive Officer
Kerala Enviro Infrastructure Ltd.
Amalambadi - 682 303

15.1 M/s. KEIL has the unrestricted right to terminate this AGREEMENT and deduct its all pending claims from the deposit paid by the MEMBER.

15.2 This AGREEMENT can be terminated by either party after giving a written notice of at least 90 days to the other party. If the cancellation is requested by the MEMBER, the provision relating to minimum charges shall be applicable, also during the notice period.

16. JURISDICTION

16.1 The present Agreement, M/s. KEIL and the MEMBER mutually agree that the Civil Court at Kochi only shall have jurisdiction for all the disputes / differences arising out of this agreement.

17. The address of the parties hereto unless changed by written notification to be given at least 15 days in advance by registered letter prior to proposed date of change, shall be as follows :

ADDRESSES OF PARTIES :

M/S.KERALA ENVIRO INFRASTRUCTURE LTD.,
(Inside FACT CD Campus)
Ambalamedu - 682 303,
Kochi, Kerala, India.

THE MEMBER:

Petronet LNG Limited,
Survey No. 347, Puthuvypu PO,
Kochi- 682508
Kerala, India

IN WITNESS WHEREOF the parties hereto acting through their properly constituted representatives have set their hands to cause this AGREEMENT signed and executed in their respective names and on their behalf.

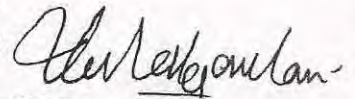
For and on behalf of the
KERALA ENVIRO INFRASTRUCTURE LIMITED



Dr. N.K. PILLAI
Chief Executive Officer
Kerala Enviro Infrastructure Ltd.
Ambalamedu - 682 303





For & on behalf
OF THE MEMBER

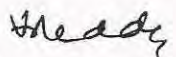
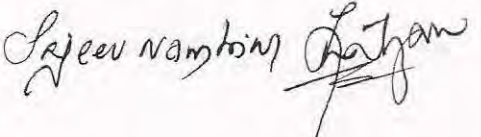


T. N. NEELAKANTAN
Sr. Vice President (Plant Head)
Petronet LNG Limited
Survey No. 347, Puthuvypu PO
Kochi-682 508, Dist. Ernakulam
Kerala (India)

Witness:

1. 
2. N. Chandranathar 


Witness:

1. 
YOGANANDA REDDY.V
2. 
Sreejith



**PETRONET
LNG
LIMITED**

ENVIRONMENT MANAGEMENT CELL

	Prepared By	Approved By	Issued By
 PETRONET LNG LIMITED	Sign- <i>ajayk</i> VIJITH.T.V. Date - 20.04.2018	Sign- <i>Shel</i> Date - 23/4/18	Sign- <i>Shady</i> Date - 23.4.18

REVISION HISTORY

Date of Issue	Revision / Amendment	Details	Page No
10-02-2014	Rev-00		
26-08-2016	Rev-01	Inclusion of Sr.Mgr(Operations) and Change of Head (HSE) and Head (Projects)	02
20-03-2017	Rev-02	Inclusion of Mgr.(Materials) & Mgr.(Technical)	04
03.06.2017	Rev-03	Inclusion of GM (O&M) and Ms. Selsa Rajesh name is replaced with Mr.Biju from Lab	04
01.05.2018	Rev-04	1. VP (O & M) is replaced with Sr VP (plant head) and Inclusion of Sr Officer (HR) 2. Environment management cell structure also reorganised.	04

CONTENTS

1. PURPOSE.....	04
2. SCOPE.....	04
3. Environment Management Cell.....	04
A. Members of Environment management cell.....	04
B. Structure of Environment Management cell	04
C. Roles and responsibility of Environment Management cell	05
D. Functioning of Environment Management cell.....	06
E. List of team members & designation	06

1. PURPOSE:

Purpose of this document is to establish an Environment Management to monitor all plant activities, in order to ensure that they are carried out in an environmentally friendly manner.

2. SCOPE:

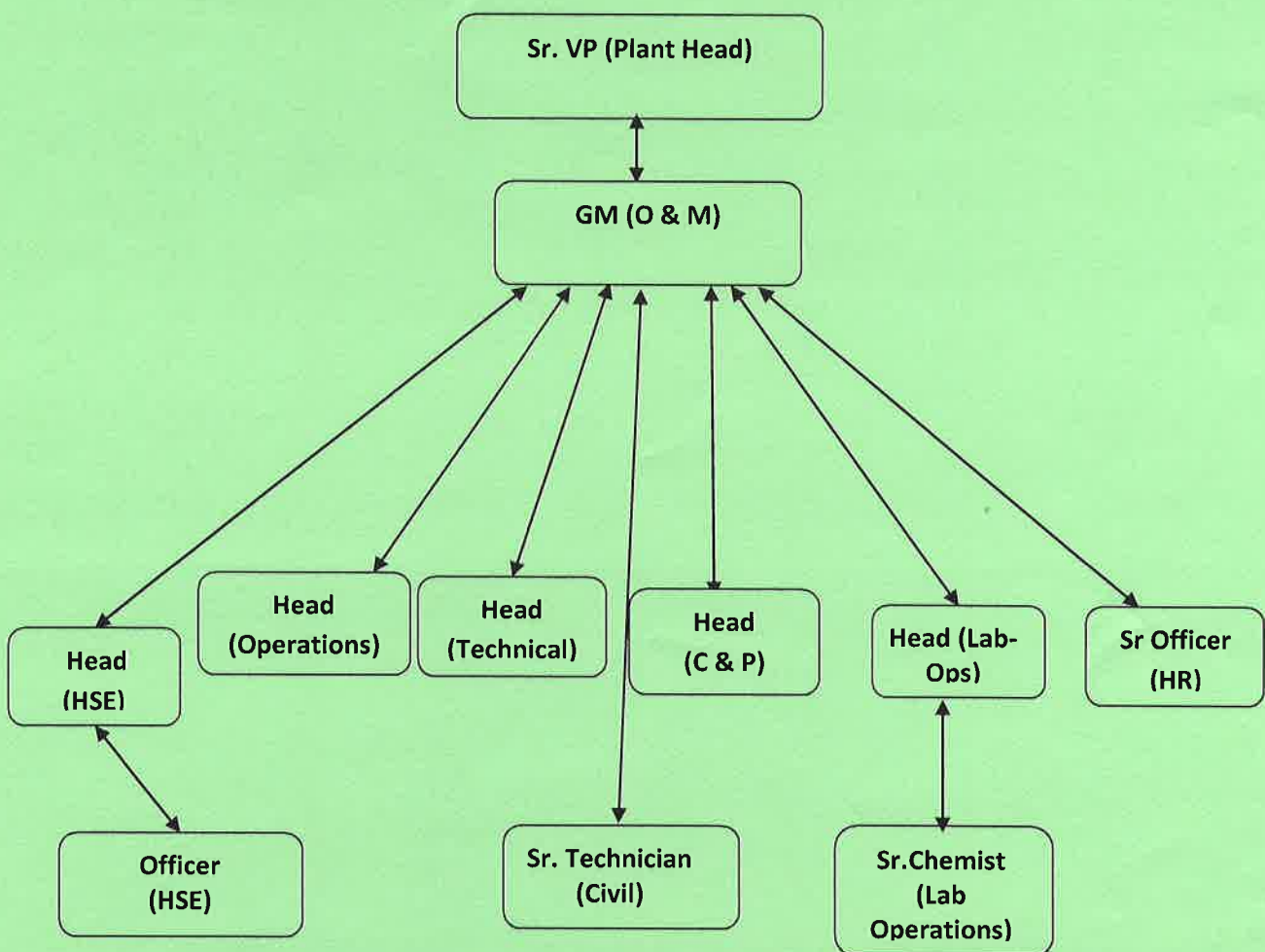
This document outlines the different aspect of the Environment management like its members, structure, roles and responsibility and mode of functioning.

3. ENVIRONMENT MANAGEMENT CELL:

A) Members of Environment Management Cell:

Environment management will be headed by Sr. VP (Plant Head) and other members are Head (Operations), Head (HSE), Head (Technical), Head (C & P), Head of Lab Operations, Sr Officer (HR), Officer (HSE), Chemist (Lab Operations) and Sr. Technician (Civil); the cell will be reporting to Sr.Vice President (Plant Head).

B) Structure of Environment Management Cell:



Environment Management Cell

C) Roles and Responsibility of Environment Management Cell:

Roles and responsibility of Environment management cell are listed below, but not limited to:

- Advice management on issues related to environment.
- Identify activities which have potential to harm environment and to suggest measures to mitigate them.
- Create awareness among employees, contractors, visitors and public regarding the importance of environment protection and means to protect it by conducting tree plantations, campaigns, training programs, posters etc.
- Develop and implement the plans in order to reduce, reuse and recycle wastes.
- Plan, develop and implement environment management projects by coordinating with different departments, government agencies, NGO etc.
- Monitor and review different environment monitoring reports of ambient air, noise, vibration, stack emission, liquid effluents, and will take measures to ensure it is well below the permissible limit prescribed by central/ Kerala state pollution control board.
- Take review of the status of solid waste, hazardous wastes, biological waste, food waste, etc. that are generated either by operation or domestic activities of our plant.
- Ensure all activities of the plant are carried out in an environmentally safe manner and as mentioned in consent to establish and operate.
- Ensure Environment related statutory compliance, i.e. MoEF, CRZ clearance, KSPCB etc.
- Ensure adequate vegetation cover in the premise by develop and maintain green belt.
- Ensure plant and its premises are kept clean from waste.
- Ensure that all liquid effluent generated as a result of operation or domestic activities of our plant should be treated well to the standard as prescribed by central/ Kerala state pollution control board before discharging.
- Take measure to prevent/minimize/control plant fugitive emission, if any.
- Ensures proper handling (collecting and segregating), storage and disposal of hazardous wastes i.e. used oil, solid and biological waste.
- Identifying contactors qualified by central/ Kerala state pollution control board for disposing different categories of waste.
- Carry our work environment/industrial hygiene survey internally or externally for health hazards for employees.
- Arranging World Environment Day (WED) celebrations every year.

D) Functioning of Environment Management Cell:

- Environment management cell shall meet once in a month.
- Date, time, venue and the agenda of the meeting will be identified by Head Operations and the same will be informed to its members, at least one day in advance.
- The meeting shall be convened by the GM (O &M), initial discussion will be on the agenda, then on the progress of the decision taken on the previous meeting.
- Members can share any other information or raise any concern pertaining to the environment and the same will be discussed in detail.
- Minutes of the meeting points shall be recorded and a report for the same will be prepared and documented.
- Meeting minutes shall be reviewed and concluded by the Head of the Environment Management Cell after listing out the outcome of the meeting and setting of goals.
- Members shall be responsible to execute the decision taken in the meeting, by coordinating with different departments, and the progress has to be reported in the next meeting.

E) List of team members & designation:

1. Shri. Yogananda Reddy GM (O&M)
2. Mr.Veerasley Manimaran – Sr.Manager (Operations)
3. Mr. Suresh P – Manager (C & P)
4. Mr.Jaiganesh Dakshinamurthy – Manager (Technical)
5. Mr. L.S.Raja – Dy. Manager (Lab Operations)
6. Mr. Vijith T V – Dy. Manager (HSE)
7. Mr. Hevin Verghese – Sr Officer (HR)
8. Mr. Nishant A – Officer (HSE)
9. Mr. Anish Kumar – Sr.Technician (Civil)
10. Mr. Biju K J– Sr. Chemist (Lab Operations)

Note: EMC group common e mail id emc_kochi@petronetlng.com is created for internal communication.

Annexure-04

Environment Expenditure For FY 2017-2018 in Rupees		
Particulars	Budget	Consumed
Environment Monitoring	680,076.00	1,349,076.00
Training & Awareness	87,875.00	87,875.00
Hazardous Waste Handling & Disposal	126,481.00	126,481.00
Licence Fees	8,682,083.00	8,682,083.00
Audits	895,500.00	895,500.00
Afforestation	1,500,000.00	1,500,000.00
Other		
Total	11,972,015.00	12,641,015.00



COCHIN TEST HOUSE

ANALYTICAL SERVICES & TESTING LABORATORY

V / 78, Kollanpady, Murungaliparambu Road, Irumpanam P.O., Kochi - 682 309
 Mob.: 9446332556, 9387381780, 9846551014, Tel. : 0484 - 2782672
 E-mail: cochintesthouse1@gmail.com, Web : ww.cochintesthouse.in

Laboratory Approved by Kerala State Pollution Control Board

TEST REPORT

Report No : CTH/LR/18/NN/395 Issue Date : February 27, 2018
 Name and Address of customer : M/s. Petronet LNG Limited, Survey No. 347,
 Puthuvypu, Kochi-682 508
 Sample Drawn By : Cochin Test House
 Particulars of the sample : Water Sample
 Sample code : 18/NN/395
 Date of receipt of sample : 22.02.2018
 Dates of Analysis : 22.02.2018 - 27.02.2018
 Description of the sample by the customer : Bore Well Water

Sl.No.	Parameters	Unit	Method	Result
1	pH	----	IS : 3025 (Pt.11)	7.04
2	Total Dissolved Solids	mg/l	IS :3025 (Pt.16)	75
3	Turbidity	mg/	IS :3025 (Pt.10)	2.3
4	Chloride	mg/l	IS : 3025 (Pt. 32)	23.42
5	Iron (as Fe).	mg/l	IS :3025 (Pt.53)	0.08
6	Fluoride	mg/l	APHA 22 nd Ed 4500F D	0.12
7	Sulphate as SO ₄	mg/l	APHA 22 nd Ed 4500 SO ₄ ²⁻ E	21.4
8	Conductivity	µs/cm	IS : 3025 (Pt .14)	154
9	Mercury	mg/l	APHA 22 nd Ed 3112 B	BDL(MDL-0.01)
10	Lead	mg/l	APHA 22 nd Ed 3111 B	BDL(MDL-0.05)
11	Copper	mg/l	APHA 22 nd Ed 3111 B	BDL(MDL-0.1)
12	Chromium	mg/l	APHA 22 nd Ed 3500 Cr. B	BDL(MDL-0.05)
13	Zinc	mg/l	APHA 22 nd Ed 3111 B	BDL(MDL-0.05)
14	Temperature	°C	IS : 3025 (Pt.9)	27
15	Salinity	ppm	CTH/SOP/55	38.85
16	Oil and Grease	mg/l	IS : 3025 (Pt. 39)	BDL(MDL- 4.0)
17	Dissolved Oxygen	mg/l	IS : 3025 (Pt.38)	6.1
18	BOD at 27°C 3 days	mg/l	IS : 3025 (Pt. 44)	BDL(MDL- 2.0)
19	COD	mg/l	IS : 3025 (Pt. 58)	12
20	Cyanide as CN	mg/l	IS : 3025 (Pt. 27)	BDL(MDL-0.02)
21	Cadmium as Cd	mg/l	APHA 22 nd Ed , 3111 B	BDL(MDL-0.1)
22	Insecticide	µg/l	APHA 22 nd Ed , 6630 c	ND
23	Pesticide	µg/l	CTH/SOP/56	ND

ND: Not Detected, BDL- Below Detection Limit; MDL-Minimum Detection Limit.

End of report



[Signature]
 Verified By

[Signature]
 K.P. Yacob
 Authorised Signatory
 Chemical
 COCHIN TEST HOUSE

NOTE : This test results relate only to the sample submitted for analysis.

The test report shall not be reproduced except in full without the written approval of the laboratory.



Petronet LNG Limited

Survey No. 347, Puthuvypu P.O.
Kochi - 682 508, India.
Tel: 0484 - 2502259 Fax: 0484 2502264
www.petronetlmg.com
CIN L74899DL1998PLC093073

PLL/KOCHI/KSPCB/Form-V/2017-18

20.09.2017

KSPCB Consent No: PCB/HO/EKM/ICO-R/12/2016.

To,

The Chief Environmental Engineer,
Kerala State Pollution Control Board,
Gandhinagar, Kochi – 682020.

Sub: Submission of Environment Statement (Form-V).

Dear Sir/Madam,

Petronet LNG, Kochi terminal was commissioned on 20th August 2013 and KSPCB Consent number is PCB/HO/EKM/ICO-R/12/2016.

Kindly find Form-V (Environment Statement) of Petronet LNG Ltd, Kochi Terminal for the financial year 2016-2017, as per Environment (Protection) Rules, 1986.

Thanking you,

For, Petronet LNG Ltd.

T.N. Neelakantan,
Vice President (Plant Head).



T. N. NEELAKANTAN
Vice President (Plant Head)
Petronet LNG Limited
Survey No. 347, Puthuvypu PO
Kochi-682 508, Dist. Ernakulam
Kerala (India)

Enclose: Environment Statement (Form-V).

Cc:

The MEMBER SECRETARY,
Kerala State Pollution Control Board,
Pattom P. O.,
Thiruvananthapuram – 695004,
Kerala.

ENVIRONMENTAL STATEMENT FORM-V
(See rule 14)

Environmental Statement for the financial year ending with 31st March 2017

PART-A

1	Name and address of the owner/ Occupier of the industry, operation or process.	:	Mr. Rajender Singh; Director (Technical) Kochi Address: Petronet LNG Limited, Puthuvypu P.O., Ernakulam-382508 Corporate Office: Petronet LNG Limited, World Trade Center, First Floor, Babar Road, Barakamba Lane, New Delhi-110001
2	Industry category	:	Orange
3	Production category. Units.	:	5 Million TPA
4	Year of establishment	:	20 th August 2013
5	Date of the last environmental statement submitted.	:	29-08-2016

PART -B

Water and Raw Material Consumption:

I. Water Consumption (M³/Day)

Process : 7.26 M³/d
Cooling : Nil
Domestic : 17.24 M³/d

Name of Products	Process water consumption per unit of products	
	During the previous financial year	During the current financial year
1. RLNG	0.025 M ³ /MT	0.010 M ³ /MT

II. Raw material consumption

Name of raw materials	Name of Products	Consumption of raw material per unit of output	
		During the previous financial year	During the current financial year
LNG	RLNG	0.024*	0.04*

*Converted LNG consumed in energy units/ RLNG produced in energy units.

PART-C

Pollution discharged to environment/unit of output
(Parameter as specified in the consent issued)

Pollutants		Quantity of Pollutants discharged (mass/day)		Concentration of Pollutants discharged (mass/volume)		Percentage of variation from prescribed standards with reasons.
(a) Water		NIL		NIL		NIL
(b) Air	Equipment	Parameters	Quantity of Pollutants discharged (mass/day)	Concentration of Pollutants discharged (mass/volume)		Percentage of variation from prescribed standards with reasons.
	GTG-A	PM	49.70 Kg/d	90.8 mg/Nm ³		No variation from prescribed standard
		CO ₂	26.60 T/d	2.5 %		
		CO	207.76 Kg/d	303.8 ppm		
		SO ₂	0.0 Kg/d	0.0		
		NO _x	143.86 Kg/d	262.8 mg/Nm ³		
	GTG-B	PM	26.68 Kg/d	82.6 mg/Nm ³		No variation from prescribed standard
		CO ₂	17.56 T/d	2.8 %		
		CO	95.61 Kg/d	236.7 ppm		
		SO ₂	0.0 Kg/d	0.0 mg/Nm ³		
		NO _x	65.21 Kg/d	201.7 mg/Nm ³		
	GTG-C	PM	51.31 Kg/d	79.3 mg/Nm ³		No variation from prescribed standard
		CO ₂	29.21 T/d	2.3 %		
		CO	209.55 Kg/d	259.3 ppm		
		SO ₂	0.0 Kg/d	0.0 mg/Nm ³		
		NO _x	169.07 Kg/d	261.4 mg/Nm ³		
	Emergency DG set	PM	0.03 Kg/d	63.9 mg/Nm ³		No variation from prescribed standard
		CO ₂	0.02 T/d	2.5 %		
		CO	0.26 Kg/d	426.3 ppm		
		SO ₂	0.01 Kg/d	19.8 mg/Nm ³		
	NO _x	0.04 Kg/d	71.1 mg/Nm ³			

b) Air	Fire Pumps-C (Diesel Operated)	PM	0.01 Kg/d	54.3 mg/Nm ³	No variation from prescribed standard
		CO ₂	0.01 T/d	2.2 %	
		CO	0.10 Kg/d	403.0 ppm	
		SO ₂	0.01 Kg/d	25.3 mg/Nm ³	
		NO _x	0.01 Kg/d	51.0 mg/Nm ³	
	Fire Pumps-D (Diesel Operated)	PM	0.01 Kg/d	48.3 mg/Nm ³	No variation from prescribed standard
		CO ₂	0.01 T/d	2.1 %	
		CO	0.11 Kg/d	417 ppm	
		SO ₂	0.01 Kg/d	34.4 mg/Nm ³	
		NO _x	0.01 Kg/d	60.4 mg/Nm ³	
	Fire Pumps-E (Diesel Operated)	PM	0.01 Kg/d	43.6 mg/Nm ³	No variation from prescribed standard
		CO ₂	0.01 T/d	2.1 %	
		CO	0.10 Kg/d	379 ppm	
		SO ₂	0.01 Kg/d	34.2 mg/Nm ³	
		NO _x	0.01 Kg/d	50.1 mg/Nm ³	
	Fire Pumps-F (Diesel Operated)	PM	0.00 Kg/d	68.2 mg/Nm ³	No variation from prescribed standard
		CO ₂	0.00 T/d	2.6 %	
		CO	0.05 Kg/d	652 ppm	
		SO ₂	0.00 Kg/d	34.1 mg/Nm ³	
		NO _x	0.00 Kg/d	77.4 mg/Nm ³	
	MSO C	PM	5.5 Kg/d	63.3 mg/Nm ³	No variation from prescribed standard
		CO ₂	5.94 T/d	3.5 %	
		CO	21.66 Kg/d	199.3 ppm	
		SO ₂	0.27 Kg/d	3.1 mg/Nm ³	
		NO _x	23.78 Kg/d	273.4 mg/Nm ³	

Note: All environmental monitoring activities are carried out by M/s. Cochin Test House, a KSPCB approved agency.

PART-D
HAZARDOUS WASTES
(As specified under Hazardous Wastes (Management & Handling Rules, 1989))

Hazardous Wastes	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
1. Used Oil (Schedule 1, Category: 5.1)	8220 Kg	2677.5 Kg
2. Waste residue containing oil (Schedule 1, Category: 5.2)	NIL	NIL
3. Discarded containers or barrels used for handling of hazardous wastes or chemicals (Schedule 1, Category 33.3). (used for storing dosing chemicals and used oil)	NIL	1487.5 Kg
4. Industrial use of paint, plastic and Ink wastes (Schedule 1, Category 21.1)	10130 Kg	NIL
(b) From pollution control facilities	None	None

Note:

- (1) We have received approval from KSPCB for storage of Hazardous waste upto 1 year, vide consent No. PCB/HO/EKM/ICO-R/12/2016 dated 28.02.16.
- (2) For converting used oil from KL to Kg, the density of used oil is taken as 850 Kg/m³

PART -E
SOLID WASTES:

Solid Wastes	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
a. From process	NIL	NIL
b. From Pollution Control Facility	NIL	NIL
c. Quantity recycled or re-Utilised within the unit.	NIL	NIL

PART -F

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

SL: No	Hazardous wastes	:	Composition
1	Used oil (Cat 5.1)	:	Organic Matter – 98 – 99 %, Inorganic Matter – 1 – 2 %.
2	Waste residue containing oil (Schedule 1, Category: 5.2)	:	NA
3	Discarded containers / barrels and Plastic/Ink/paint wastes (Cat 33.3)	:	Plastic or metallic barrels containing chemical / oil residue.
4	Industrial use of paint, plastic and Ink wastes (Schedule 1, Category 21.1)	:	NA

Storage and disposal practice:

Hazardous wastes generated inside the terminal is being disposed through an agency, authorized by Kerala state pollution control board (KSPCB). Petronet LNG Limited has made agreement with M/s. Cee Jee lubricants for disposing used oil generated in the terminal. Used oil generated is been collected in MS barrels or other suitable containers at the generation point. Collected waste is stored in hazardous waste storage area designated for the purpose with impervious flooring and proper roofing and handed over to authorized vendor for disposal.

Waste residues containing oil such as oil soaked cotton wastes generated at various locations are collected and kept in designated storage bin located inside hazardous waste storage shed. It is be disposed through an authorized agency.

Discarded containers / barrels and Plastic/Ink/paint wastes are collected & stored in hazardous waste storage area of proper roofing and concrete flooring inside the terminal and is disposed through authorised agency (M/s. KEIL (Kerala Enviro Infrastructure Limited).

Hazardous waste storage area is kept clean and display boards are provided at the site for storing hazardous waste as per the category. Records of hazardous wastes generated in the terminal are maintained in Form 3.

PART-G

Impact of the pollution control measures taken on conservation of natural Resources and consequently on the cost of production.

We have developed and implemented Environment Management Cell (EMC), the cell is headed by VP (Operations & Maintenance), and other members are the Head of Lab, Civil, Materials, Technical and HSE. Sufficient man-hours are allocated for functioning of EMC. Environment management cell meets once in a month and take review of the situation.

We have adopted Dry low emission burner (DLEB) in our GTG, this system ensures that the stringent emission standards are met.

We have installed Continuous Ambient Air Quality Monitoring Station (CAAQMS) in our terminal, which is linked to CPCB server. CAAQMS is capable of continuous monitoring of ambient air quality and the results are transmitted to CPCB server on a regular basis.

PART -H

Additional measures/investment proposal for environmental protection including abatement of pollution.

Hazardous Waste storage facility is developed with separate compartment and big storage bins for different categories of waste including e-waste, used battery, plastic waste etc. Photo of the storage facility is given below.



Fig-1: Hazardous waste storage facility.

Petronet LNG Limited, Kochi terminal has entered into an agreement with M/s Kerala Enviro Infrastructure Limited (KEIL) for E-waste disposal on 18th August, 2014 and this agreement is in force for a period of 5 years.

Petronet LNG Limited, Kochi terminal has implemented Environment Management System (ISO: 9001:2008, ISO 14001:2004 & OHSAS 18001:2007) and got certified in DEC-2015.

Petronet LNG Ltd, Kochi terminal has arrived at an agreement with Kerala State Social Forestry for a mangrove afforestation project in Ernakulam district, and the total cost of the project is 71.05 lakhs. Petronet LNG Limited have already transferred fund of Rs.45.00 lakh for the Mangrove Afforestation Project which is entitled "Project for Mangrove afforestation in Ernakulam district".

Petronet LNG Limited, Kochi has installed and commissioned one Continuous environment monitoring station with LED display.

PART -I

MISCELLANEOUS:

Any other particulars in respect of environmental protection and abatement of pollution.

Nil

For and on behalf of Petronet LNG Limited

Sign :



Date :

Approved By : T. N. Neelakantan

Designation : VP (Plant Head)



T. N. NEELAKANTAN
Vice President (Plant Head)

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